

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-030086

(43)Date of publication of application : 06.02.2001

(51)Int.Cl.

B23K 20/00  
B23K 20/18  
B32B 3/12  
// B23K101:02

(21)Application number : 11-204139

(71)Applicant : SHOWA AIRCRAFT IND CO LTD

(22)Date of filing : 19.07.1999

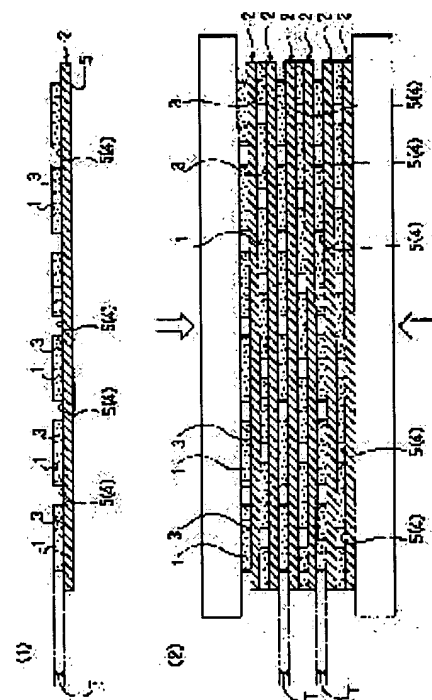
(72)Inventor : MATSUOKA KATSUNORI

## (54) MANUFACTURE OF METAL HONEYCOMB

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To suppress carburization, to prevent brittleness, high-temperature oxidation, intergranular corrosion, etc., of the base metal, and to facilitate the cleaning and removal of a releasing agent when a base metal is stainless steel, and to facilitate the cleaning and removal of a releasing agent, to surely break and diffuse an oxide film, and to smoothly achieve the diffusion bonding even when the base metal is aluminum.

**SOLUTION:** In a manufacturing method of a metal honeycomb of expansion type, a releasing agent 1 applied to a base metal 2 of stainless steel and an aluminum alloy while leaving a base metal 5 in strip contains, by weight,  $\geq 5\%$  to  $\leq 60\%$  ceramic powder of  $\leq 5 \mu\text{m}$  in grain size,  $\geq 1\%$  to  $\leq 40\%$  binder consisting of polyvinyl resin dissoluble in a solvent, and the solvent. In addition, a partially saponified polyvinyl resin and an oxide of 3A group element are preferably used for the binder, and the ceramic powder, respectively.



## LEGAL STATUS

[Date of request for examination]